Cascadia™

Creating Remote Possibilities®

Hybrid Extreme Central Monitoring Software User's Manual

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1 Introduction

This documentation contains instructions on the use of the Hybrid Extreme Central Monitoring Software (CMS).

Hybrid Extreme CMS is included with the Hybrid Extreme VMS software. The wide range of functionalities the CMS provides includes: connecting multiple Hybrid Extreme VMSs, view live monitoring, search/playback, manage cameras, manage other connect devices, manage recording servers, and the list goes on. This centralized monitoring software integrates security to the fullest.

For More Information

Visit Cascadia Video Products, LLC at http://www.cascadiadvrt.com for additional product documentation.

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2 Hardware System Requirements

The following are minimum system requirements for running CMS. System requirements depend on the system's camera count, frame rate, bitrate, and resolution.

Operating System	Windows 7 Home 64bit SP1, Windows 7 Pro 64bit SP1, Windows 7 Ultimate 64bit SP1
CPU	Intel Core i3, i5, i7 Sandy Bridge or Ivy Bridge CPU; Intel i7 3770 CPU recommended
Memory	4GB or Higher; 8GB recommended
Hard Disk	Min. 5GB free space; 20GB recommended
Video Card	Intel HD Graphics Driver (CPU built-in); 4000 recommended
Motherboard	Intel Z77, B75, Z68, H77 Express Chipset Motherboard; Intel Z77 Chipset recommended
Network	Gigabit LAN chip
Web browser	Microsoft Internet Explorer 7.0 or higher

NOTE: *The 32bit Application is not to be distributed for Windows 32bit operating systems. Please contact Technical Support if you need it.*

3 Installation and removal of software

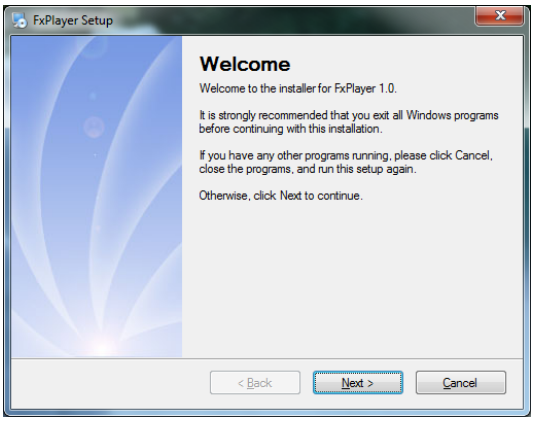
3.1 Installation

3.1.1 Player Installation

The "FX Player" is used for video display and audio-out in the CMS and other related software. It is done through the Windows ActiveX Control. The "FX Player" must be installed before the CMS to avoid installation issues, as the CMS will search for the "FX Player" to complete the installation.

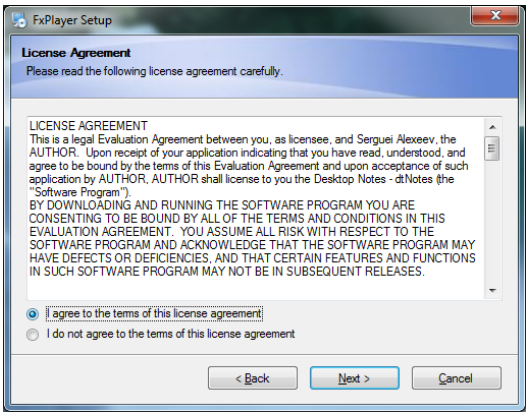
The "FX Player" has two installable versions of software as executable files: one for Intel HD Graphics GPU only, and the other for all other brands of video cards.

Windows 7 OS Type	Video Driver	Player installation file
32bit	General	FxPlayer.exe
32bit	Intel HD Graphics	FxPlayer.exe
64bit	General	FxPlayer.exe
64bit	Intel HD Graphics	FxPlayer4GPU.exe


FxPlayer Setup
Welcome
Welcome to the installer for FxPlayer 1.0.
It is strongly recommended that you exit all Windows programs before continuing with this installation.
If you have any other programs running, please click Cancel, close the programs, and run this setup again.
Otherwise, click Next to continue.
< Back
Next >
Cancel

Open either the FxPlayer.exe or FxPlayer4GPU.exe, depending on which video card you have.

Click Next to continue.


FxPlayer Setup
License Agreement
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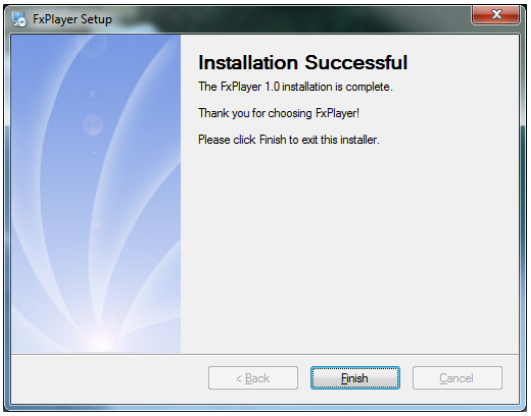
I agree to the terms of this license agreement
I do not agree to the terms of this license agreement
< Back
Next >
Cancel

Please read and agree to the terms of the license and click Next.

This will start the installation process.



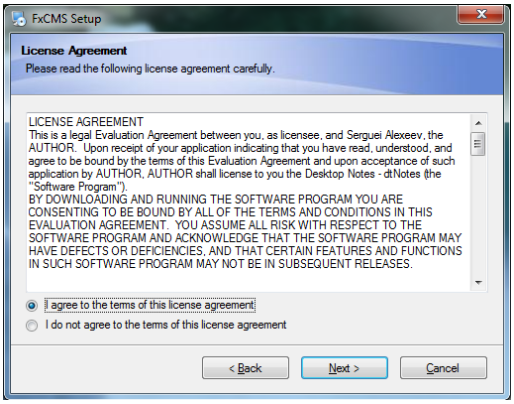
Once installation is successful, press the Finish button.

3.1.2 CMS Installation

The installation file name for CMS setup is FxCMS-64bit.exe.

To start the install, click Next.

FxCMS Setup
Welcome
Welcome to the installer for FxCMS 1.0.
It is strongly recommended that you exit all Windows programs before continuing with this installation.
If you have any other programs running, please click Cancel, close the programs, and run this setup again.
Otherwise, click Next to continue.
< Back
Next >
Cancel


FxCMS Setup
License Agreement
Please read the following license agreement carefully.
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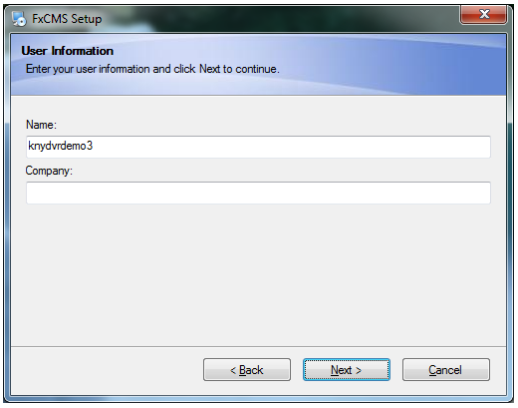
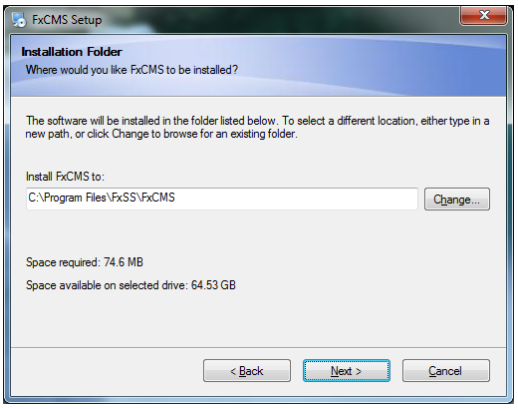
I do not agree to the terms of this license agreement
< Back
Next >
Cancel

Please read and agree with the terms of the license and click Next.

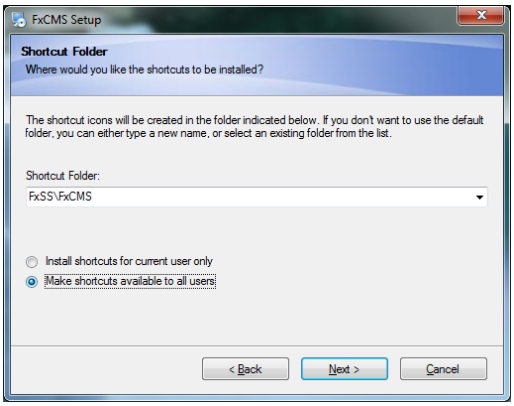


Enter your user information and click Next to continue.


FxCMS Setup
Installation Folder
Where would you like FxCMS to be installed?
The software will be installed in the folder listed below. To select a different location, either type in a new path, or click Change to browse for an existing folder.
Install FxCMS to:
C:\Program Files\FxSS\FxCMS
Change...
Space required: 74.6 MB
Space available on selected drive: 64.53 GB
< Back
Next >
Cancel

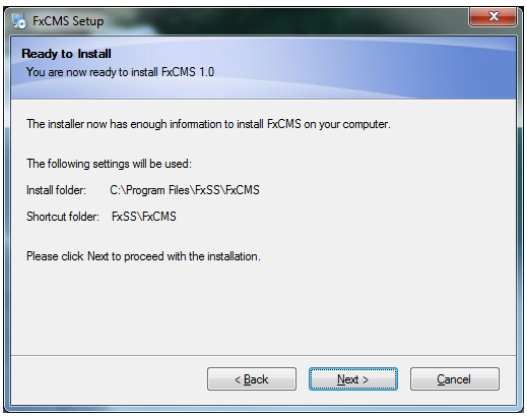
The software will be installed in "C:\Program Files\FxSS\FxCMS" by default. To select a different location, either type in a new path, or click change to browse for an existing folder.

Click Next to continue.

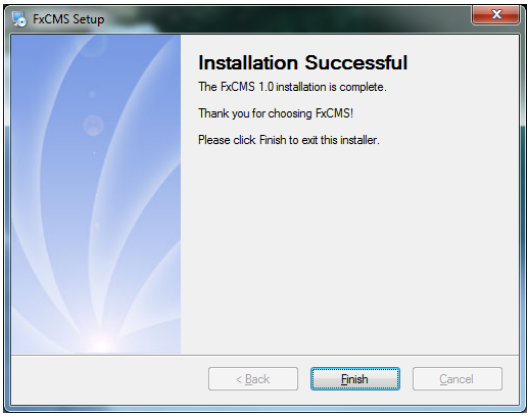

FxCMS Setup
Shortcut Folder
Where would you like the shortcuts to be installed?
The shortcut icons will be created in the folder indicated below. If you don't want to use the default folder, you can either type a new name, or select an existing folder from the list.
Shortcut Folder:
FxSS\FxCMS
Install shortcuts for current user only
Make shortcuts available to all users
< Back
Next >
Cancel

The shortcut icons will be created in the shortcut folder "FxSS/FxCMS" by default. If you don't want to use this folder, you can either type a new name or select an existing folder from the list.

Click Next to continue.


FxCMS Setup
Ready to Install
You are now ready to install FxCMS 1.0
The installer now has enough information to install FxCMS on your computer.
The following settings will be used:
Install folder: C:\Program Files\FxSS\FxCMS
Shortcut folder: FxSS\FxCMS
Please click Next to proceed with the installation.
< Back
Next >
Cancel

Click Next to proceed with the installation.



Once installation is successful, click "Finish."

The FxCMS icon

is located on the desktop.

To start the CMS, double click "FxCMS" icon to run.

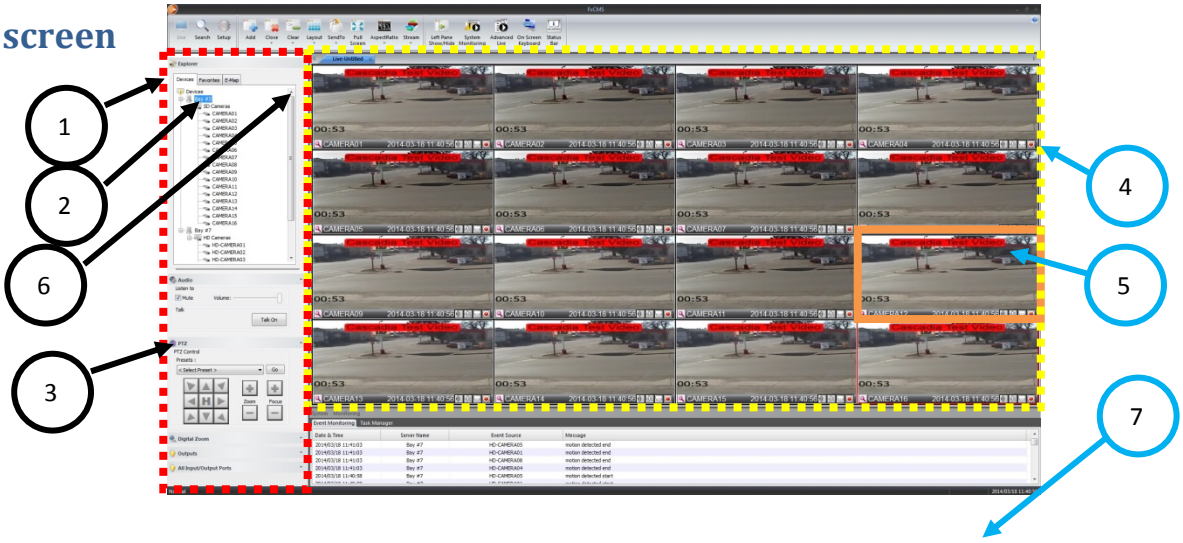
3.2 Remove software

To uninstall software go to:

Control Panel > Programs and Features > Uninstall FxCMS.

Control Panel > Programs and Features > Uninstall FxPlayer

4 Main screen



Main screen is divided into the following sections:

1 Main Icon

2 Main Tool

3 Left tool pane

4 View window tab

5 Channel window

6 Window Tool

7 System Event monitoring window

4.1 Exit

The program will exit and go to the desktop.

4.2 Main Tool

"Main Tool" contains Live, Search, & Setup buttons.

The left pane in Live Mode contains its own unique set of panes, and the selected view window displays live video.

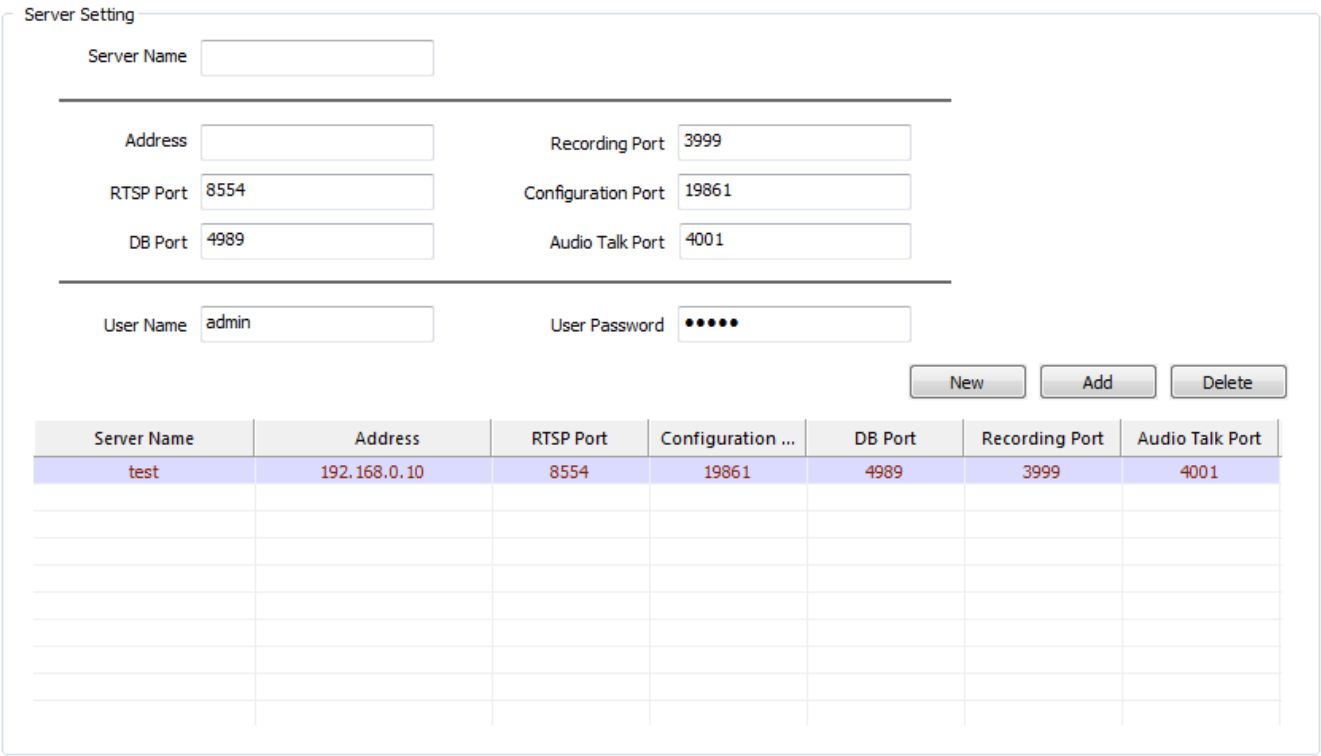
The left pane in Search Mode contains its own unique set of panes, and the selected view window displays recorded video.

The left pane in Setup Mode consists of the Setup tree, and the view window changes contextually based on which item in the tree is selected.

4.3 Add, Edit and Remove NVR

Click Setup button on the Main Tool to access Setup Mode.

Click "Surveillance Server" in the Setup tree to add an NVR server.



4.3.1 Add NVR

- Click New button to reset the "Server Setting" form.
- Enter Server Name.
- Enter address of the NVR server and change the ports if needed.
- Enter Username and password if needed.
- To save, click Add button.

When the NVR server is connected, the setup tree of the NVR is displayed.

4.3.2 Edit NVR

Select a server on the list and change the parameters. To save, click Modify button.

4.3.3 Delete NVR

Select one of server on the list and click Delete button to remove the selected server.

4.4 Left pane

Clicking the Live button on the Main Tool leads to the function pane for Live Mode. Likewise, clicking the Search and Setup buttons on the Main Tool, leads to the function panes for Search Mode and the Setup Menu respectively.

4.4.1 Live mode

Live mode is comprised of the following panes:

- Explorer
- Audio
- PTZ
- Digital Zoom

- Outputs control
- Spotouts
- Input port status/output port control

For more information, see section 5 Live.

4.4.2 Search mode

Search mode is comprised of the following function panes:

- Explorer
- TimeSet
- Audio
- Digital Zoom
- Print
- Export

For more information, see section 6 Search.

4.4.3 Setup mode

Setup mode is comprised of the Setup menu pane. For more information, see section 7 Setup.

4.5 View window tab

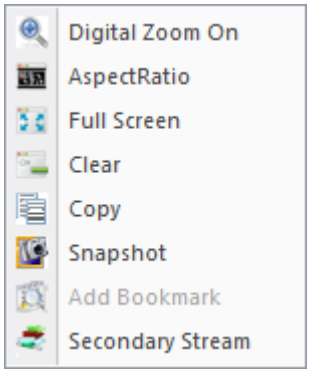
The View window is an area to display live video or recorded video with a chosen layout. For more information about layouts, see section 4.7.3 Layout.

The View window can be displayed as multiple tabs, each tab added by clicking the Add button in the Window Tool by opening a saved Favorite view.

4.6 Channel Window

This area displays the status of the selected camera and video. There are different functions depending on the mode dictated through the Main tool. For more information, see sections 5.1 for Live and 6.3 for Search.

By right-clicking on each individual channel, a popup menu will be displayed.



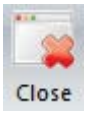
Digital Zoom	Turn the digital zoom of the selected channel on or off
Aspect Ratio	Change the aspect ratio of the selected channel or switch to fit screen
Full screen	Change to full-screen display or switch back to normal screen size
Clear	Closes the selected channel
Copy	Copy the currently selected channel image into clipboard (which can then be pasted into editing programs such as MS Paint and saved).
Snapshot	Save selected channel image as a PNG file

Add Bookmark	A Bookmark can be set up to search from the currently selected time
Stream	Switch between Primary stream or Secondary stream for the selected channel in Live mode

4.7 Window tool

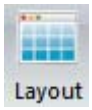
Add View window tab.

***NOTE**: In the CMS, there is no limit to the number of window tabs that can be active at once.*



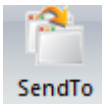
Close all or close the selected view window tab.

Clear all or clear the selected view window tab.



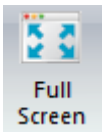
Make changes on a layout of the selected untitled view window tab.

***NOTE**: The layout cannot be changed in a Favorites view.*



Display selected view window tab on a different screen.

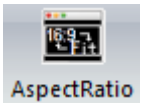
The CMS can be displayed on multiple monitors.



Change to full-screen display for the selected view window tab.

Switch between Primary stream or Secondary stream for the selected channel or all channels.

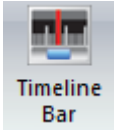
Display or hide Left pane.



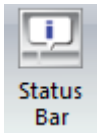
Make video aspect ratio changes on each channel of the view window.

Show or hide system monitoring window. This window is comprised of Event monitoring, Task manager, & VA (Video Analytics) event monitoring.

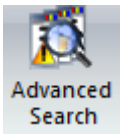
Show or hide advanced live feature window. There are VA tool features available in this section.



Hide or show timeline in Search mode.



Hide or show Status bar.

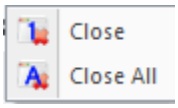


Show Advanced search in Search mode, which also contains Event search and Smart search.

Displays “On Screen Keyboard”

4.7.1 Close

View window tab(s) can be closed.



Close	Close currently displayed view window tab.
Close All	Close all view window tabs.

4.7.2 Clear

Only "untitled" view window tabs can be cleared. Channels cannot be cleared in a “Favorites” view.

Selected Channel	Close currently selected channel.
All Channels On Tab	Close all channels.

4.7.3 Layout

Layout can be modified only on “untitled” window tabs.

4.7.4 Full screen

4.7.4.1 *Main screen to Full screen*

Pressing “FullScreen” button will expand the selected view window tab to full screen.

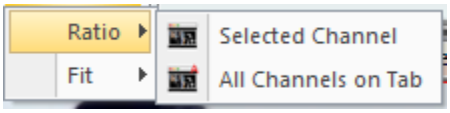
4.7.4.2 *Full screen to Main screen*

There are two ways to return to the main screen from full-screen view:

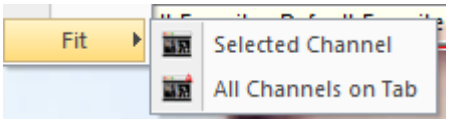
Press “ESC” on the keyboard or right-click on the channel window and select “Exit Full Screen.”

4.7.5 Aspect Ratio

Select whether to use the original aspect ratio or to fit the screen size for a single channel or all channels.



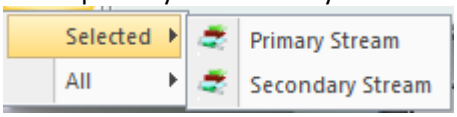
Selected Channel	Apply aspect ratio on the selected channel.
All Channel on Tab	Apply aspect ratio on all channels in the current view window tab.



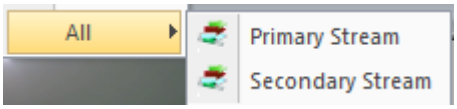
Selected Channel	Modify the selected channel to fit the screen size.
All Channel on Tab	Modify all channels in the current view window tab to fit the screen size.

4.7.6 Stream selection

Select primary or secondary stream for a single channel or all channels.



Primary Stream	A selected channel is displayed on the primary stream.
Secondary Stream	A selected channel is displayed on the secondary stream.



Primary Stream	All channels are displayed on the primary stream.
Secondary Stream	All channels are displayed on the secondary stream.

4.8 Status bar

The status bar displays the current operating status of the NVR.

5 Live

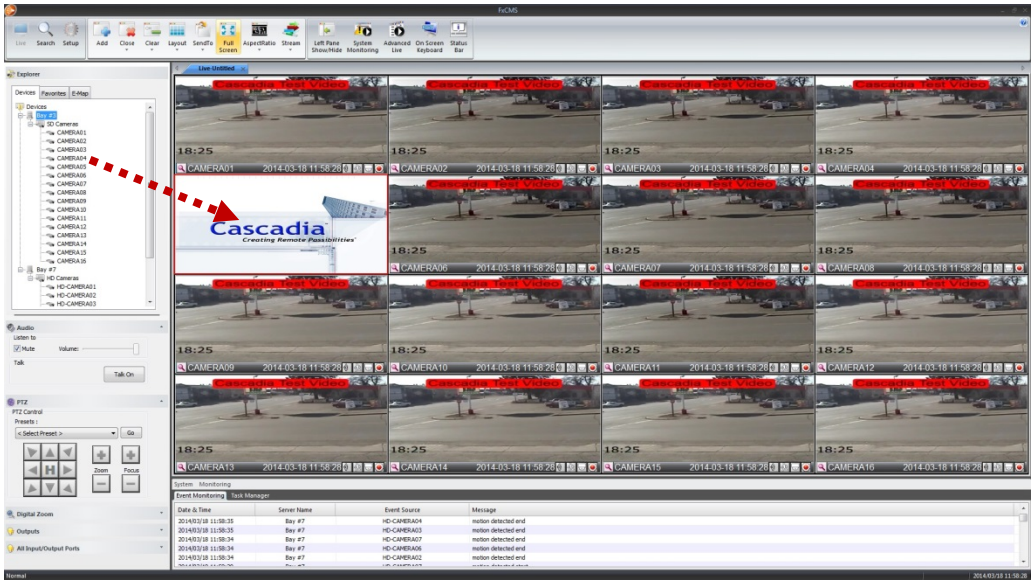
5.1 Channel window

Video is displayed in the channel window and the features are as follows:

- Camera status display
- Digital zoom use (for more information, see section 5.5 Digital Zoom)
- Save current image by using the Snapshot feature.
- Display E-Map.
- Display POS transaction data.

On the Device tab of the Explorer pane, drag and drop the selected camera into selected channel window to display video.

Using the same method, select a Map in the E-Map tab and drag-drop to display the E-Map.



5.1.1 Camera status display

Status display includes the following:

- Current date and time
- Camera name
- Recording status

Recording disabled

Recording

- Motion Status Display

Motion detected

No Motion detected

- PTZ Display

PTZ undefined

PTZ defined and enabled

- Audio Display

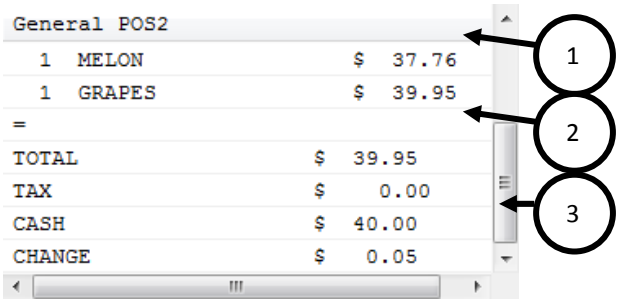
Audio undefined

Audio defined and available

- Video Loss status display: Displayed when there is Video Loss.
- Video Secure status display: Displays when a user does not have permission to the view the selected video.

5.1.2 POS transaction data display

POS transaction data is displayed on the channel.



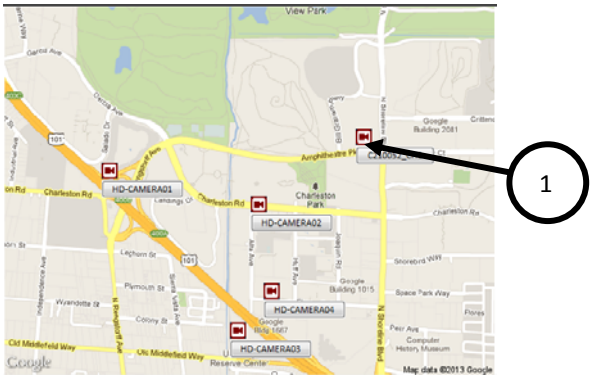
(1) The name of the POS device is located at the top.

(2) A transaction is displayed in real-time.

(3) Previous transaction data can be reviewed by using the scroll bar.

5.1.3 E-Map display

An E-Map is displayed on the channel.



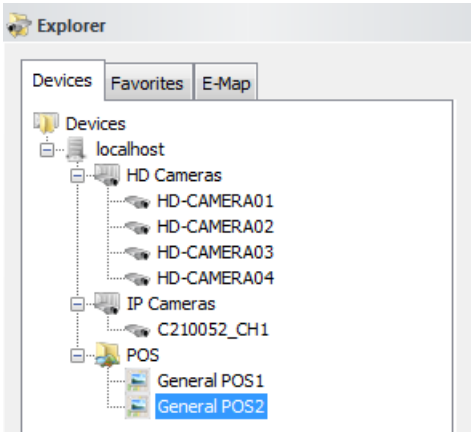
A camera icon with the name of the camera is displayed.

To display a camera, the user can drag and drop the selected camera icon to channel window.

5.2 Explorer pane

The Explorer pane consists of the Devices tab containing a tree of all the registered cameras, the Favorites tab containing Favorite views, and the E-Map tab containg E-Map views.

5.2.1 Devices tab



All the registered cameras and POS devices are displayed in the Devices tab. Cameras that are disabled will not be shown in the Devices tab.

Drag and drop the selected camera into selected channel window to display video. The transactions data from the POS device can be displayed in the same way.

NOTE: *Duplicate views of the same device cannot be displayed.*

Live camera

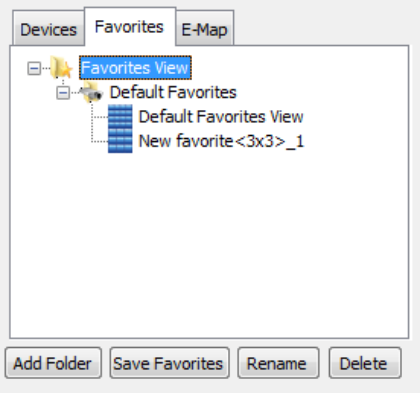
Camera with video loss

Disabled camera

5.2.2 Favorites tab

The names of favorite views are listed on the Favorite tab. Favorites can be added or deleted.

Favorites can be accessed by all users, but only authorized users can make changes in the Favorites tab.



Add Folder	Add Favorite folder.
Save Favorite	Save the selected untitled view tab as a favorite.
Rename	Rename selected Favorite or Favorite folder.
Delete	Delete selected Favorite or Favorite folder.

5.2.2.1 *Add favorite folder*

- Click “Add folder” button.
- Set folder name, then click “Enter” to save.

5.2.2.2 *Add favorite*

- In Window Tool click “Add view” to create a new untitled view tab. However if the desired untitled view to be converted into a Favorite is already open and active, this step and the following two steps can be skipped.
- Click the “Layout” button and select the desired layout.
- In the “Devices” tab of the Explorer pane, drag-and-drop the desired camera into the channel window.
- Select a created Favorites folder in the “Favorites” tab if desired and click “Save Favorite.” Otherwise, just click “Save Favorite” to save in “Default Favorites” folder.
- Set Favorite name, then click “Enter” to save.

5.2.2.3 *Rename favorite or folder*

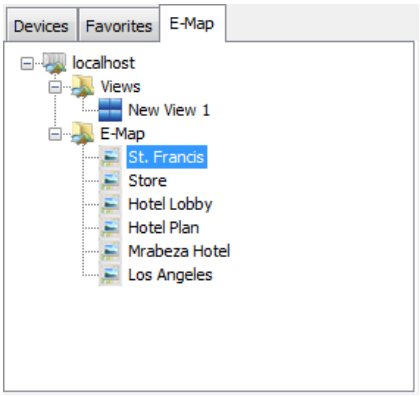
- Select Favorite or Favorite folder.
- Click “Rename” button.
- Change the name, then click “Enter” to save.

5.2.2.4 *Delete favorite or folder*

- Select Favorite or Folder.
- Click “Delete” button.
- Select "Yes" in the message box.
- The selected favorite will be deleted from the tree.

5.2.3 E-Map

E-Maps are created on the server via Setup and can be displayed in the view window.



5.2.3.1 *Views*

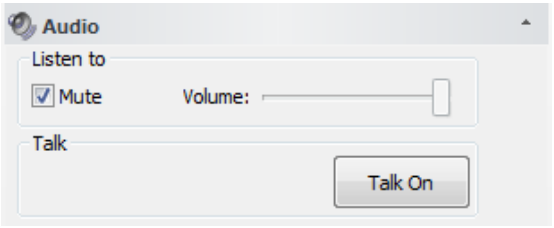
Views are comprised of favorites that are created in E-map setup. A view includes the maps and the cameras on the layout. All available users can use views.

Double-click on the view name to display in the view window tab.

5.2.3.2 *E-Map*

To display individual E-Maps in the view window, drag-and-drop them into a channel window.

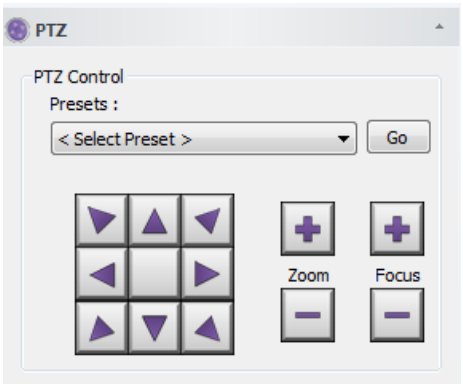
5.3 Audio



Mute	Mute volume.
Volume	Volume control
Talk On	Click on button to talk through the selected camera.

NOTE: *Camera and audio configuration is configured in NVR server setup.*

5.4 PTZ Control pane



The PTZ pane is activated by the selected channel window that has the PTZ control enabled.

Pan, tilt, zoom, and focus control functions are available.

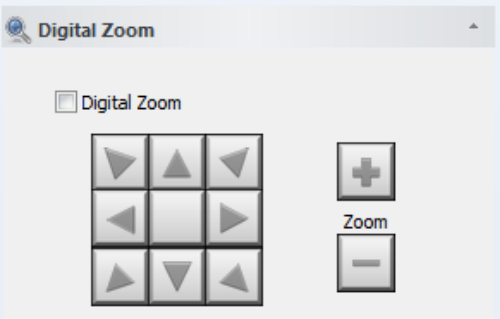
NOTE: *The user must have permission to use the PTZ camera control function.*

5.4.1 Go Preset

Presets are stored in PTZ setup. The name of the saved preset is listed in the "Presets" box. A user can select a preset and click the Go button to move to the selected preset.

For more information about defining presets, see PTZ setup in the “NVR Server Manual.”

5.5 Digital Zoom

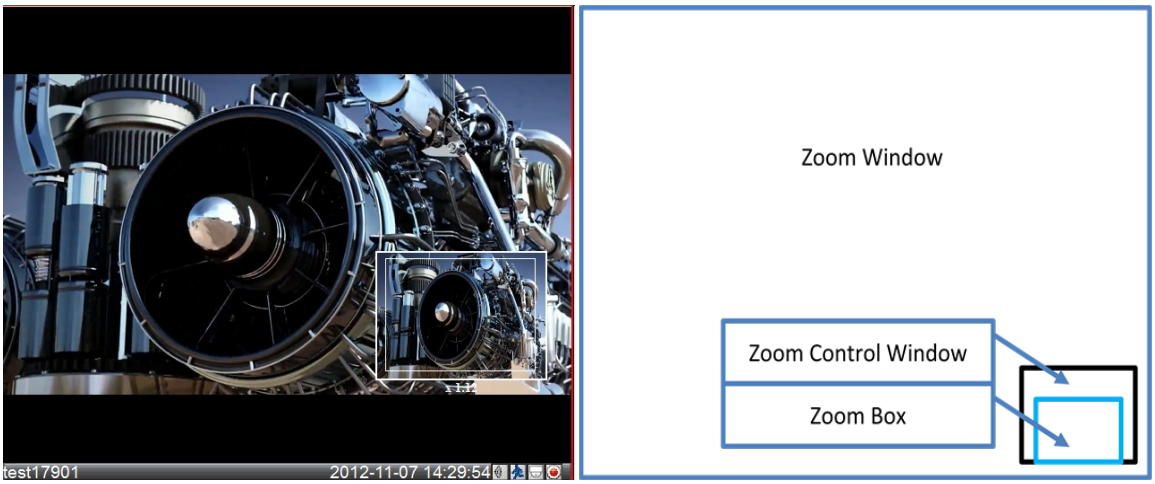


To use the Digital Zoom function, the Digital zoom feature must to be turned on. Use one of the following methods:

- Check “Digital Zoom” box in the Digital Zoom pane.
- Right-click in the Channel window and select "Digital Zoom On.”

To deactivate the Digital zoom function, use one of the following methods.

- Uncheck “Digital Zoom” box in the Digital Zoom pane.
- Right-click in the Channel window and select "Digital Zoom Off.”



5.5.1 Zoom control window

5.5.1.1 *Zoom control window*

The original video image is displayed in the zoom control window within the “zoom window.”

5.5.1.2 *Zoom box*

The image of the zoom box will be displayed inside the zoom control window.

5.5.1.3 *Zoom In*

Moving the mouse wheel forward will decrease the size of the zoom box around the center.

5.5.1.4 *Zoom Out*

Moving the mouse wheel backwards will increase the size of the zoom box around the center.

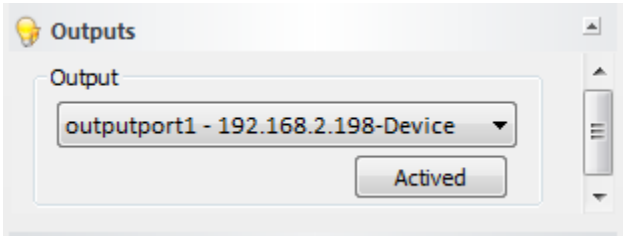
5.5.1.5 *Zoom box Movement*

The user can control the movement of the zoom box by holding down left-click. Moving the zoom box will not affect the size of the zoom box. While moving the mouse, the image of the zoom box will be displayed in the zoom window.

5.5.1.6 *Zoom window*

The image of the zoom box is displayed here in full-size.

5.6 Outputs pane

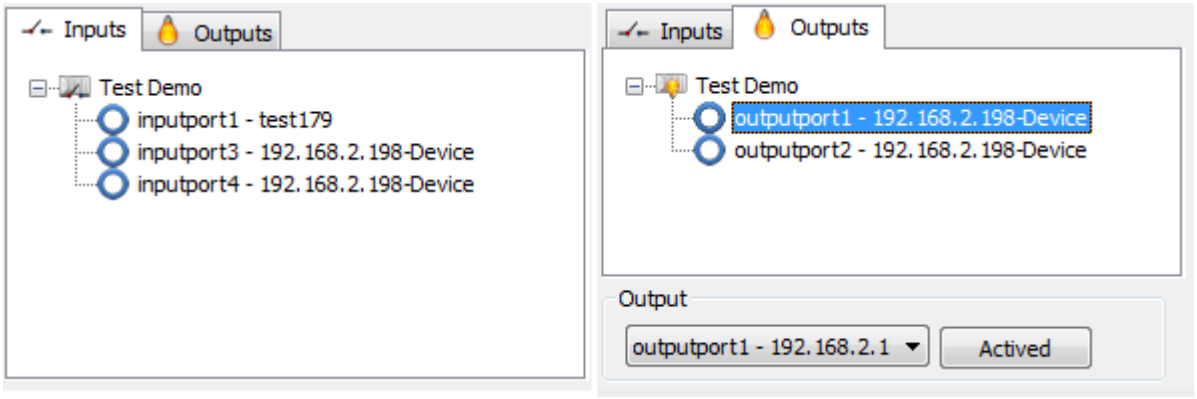


Control the output port that is connected to the NVR.

The output of the IP device will be displayed when the corresponding camera is displayed.

The status of the output port is displayed on the button—by pressing the button the status will change. Therefore, when it is in inactive status, press the button to activate; when it is in active status, press the button to deactivate.

5.7 All Input/Output Ports



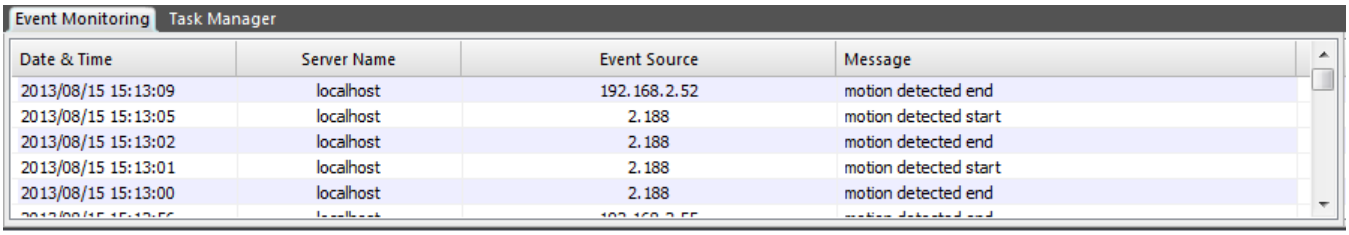
This pane is comprised of the Inputs and Outputs tabs. The Inputs tab contains a list of all the input ports. The Outputs tab contains a list of all the output ports.

Both the input ports and output ports will display their status on their respective tabs. Additionally, the outputs can be controlled from the Outputs tab.

Inactive status Active status.

5.8 System Monitoring Window

5.8.1 Event monitoring

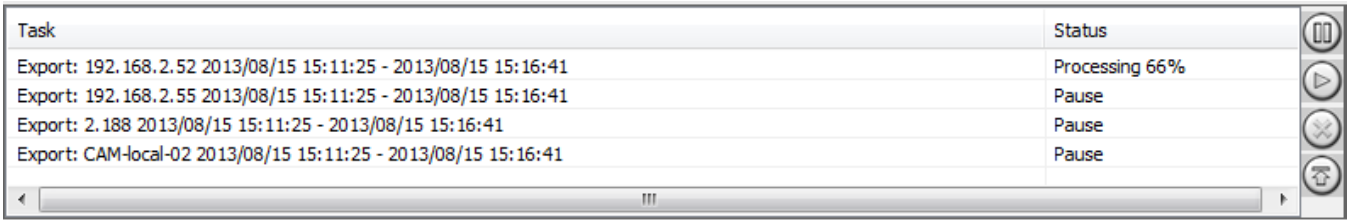

Event Monitoring
Task Manager
Date & Time
Server Name
Event Source
Message
2013/08/15 15:13:09 localhost 192.168.2.52 motion detected end
2013/08/15 15:13:05 localhost 2.188 motion detected start
2013/08/15 15:13:02 localhost 2.188 motion detected end
2013/08/15 15:13:01 localhost 2.188 motion detected start
2013/08/15 15:13:00 localhost 2.188 motion detected end

Click Event monitor icon on the Window tool to display Event monitoring pane.
This pane monitors the events, which are updated in real-time.

5.8.2 Task manager

5.8.2.1 *Background task manager*

Exports can be run as background tasks.



Backgroud tasks are displayed here. A task can be paused, restarted, cancelled, or moved up.

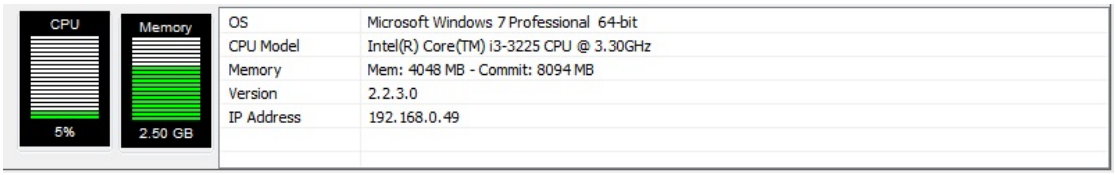
Pause selected task

Start or restart selected task

Cancel selected task

Move up the task to the beginning of the list

5.8.2.2 *System resource status*

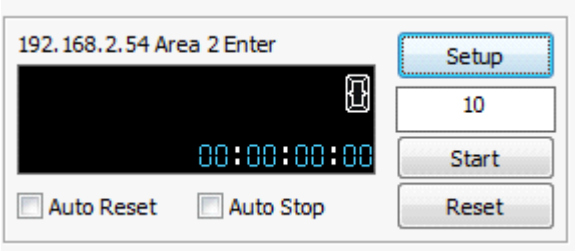


Displays information for remote PC running CMS, including current CPU and memory resource usage

5.9 Advanced Live Tool

5.9.1 Video Analytics Count Tool

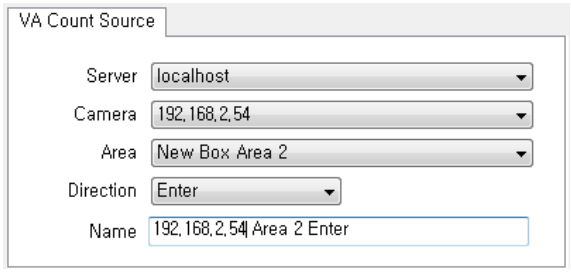
This tool counts the events from Video Analytics (VA) Camera(s).



Setup	Setup area of a VA camera.
Limit Count	Set limit of count to reset or stop.
Start	Start the count.
Reset	Reset the count.
Auto Reset	When the count meets the limit count, the count resets to zero.
Auto Stop	When the count meets the limit count, the count stops.

To start the count, press the Start button.

Setup the area and the direction of the video analytics for a VA camera.



Server	Select NVR server.
Camera	Select VA camera's IP address.
Area	Select an area to count.
Direction	Select the direction to count.
Name	Enter the name of the counter.

6 Search/Playback

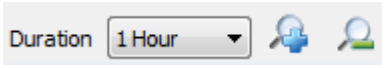
CMS has multiple search functions: calendar, timeline, thumbnail, event, and smart search. A user can playback the video by selecting the date & time of the recorded video. JPEG and AVI files of the selected video can also be printed and exported.

6.1 Time Line Search

Use the Timeline to quickly verify existing recorded data; the status of an event within the timeline is determined by the separated colors in the time line. A user can continuously search without manually inputting the date and time.

Time bar	Time display bar A user can press and hold left-click while moving the Time bar horizontally. This action scales the video of the selected time or an event as the bar moves.
Boundary time	Displays the time interval in the Time bar Displays Start and End time
Play time bar	Marks the playback location within Time bar
Current play time	Displays the current time of the playback
Time line	Displays the status of an event in the recorded video

Green	Continuous Record/No Event
Red	Motion/Event
Blue	Audio Record

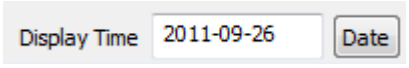


Duration is displayed below the Time bar. The Boundary time can be configured by changing the duration.

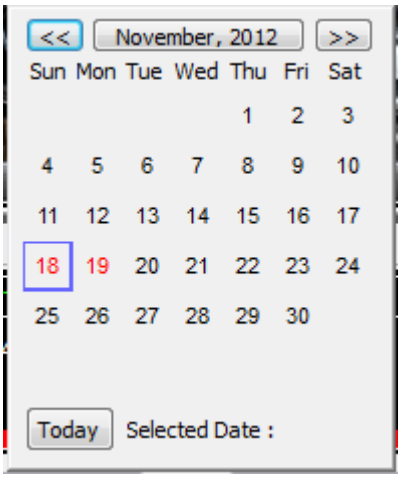
There are 1 min, 5 min, 15 min, 30 min, 1 hour, 2 hour, 4 hour, 8 hour, 16 hour, and 24 hour periods in "Duration."

: Decrease the duration within the Time boundary Increase the duration within the Time boundary

6.2 Calendar Search

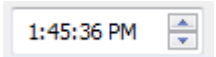


Click the "Date" button and select the desired date. Doing this will mark the selected date on the calendar.

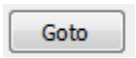


Current recorded data is marked in red on the calendar.

Press "Today" to select the present day.



Set to the desired time.



Moves to the selected date and time.

6.3 Channel window

Video is displayed in the channel window and the features are as follows:

- Camera status display
- Digital zoom use
- Save current image by using the Snapshot feature
- Display E-Map
- Add bookmark

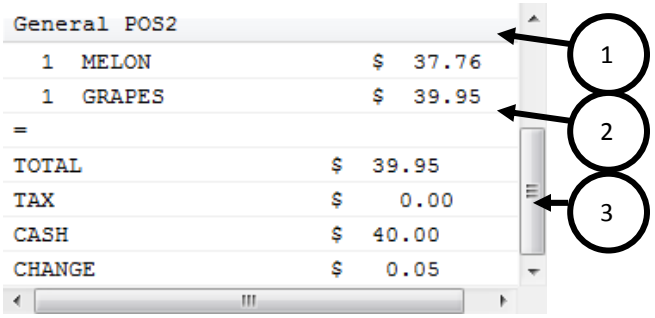
6.3.1 Camera Status display

The camera status is displayed by the following:

- Date and time of playback
- Camera name display
- "NO RECORDING" status display: Displays when there is no recording
- "NO PERMISSION" status display: Displays when the user attempts to access a video with proper authorization

6.3.2 POS transaction data display

POS transaction data is displayed on the channel.



(1) The name of POS device is located at top.

(2) A transaction data is displayed as playback time.

(2) Using scroll bar, the previous transaction data can be reviewed.

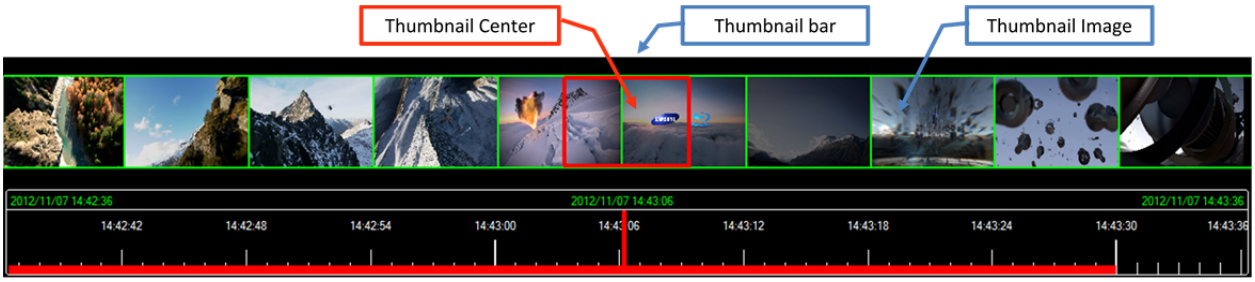
6.3.3 E-Map display

An E-Map is displayed on the channel. For more information, see section 5.1.3 E-Map Display.

6.4 Thumbnail Search

Select the Thumbnail tab below the Timeline. Using the Thumbnail images, a user can quickly search the desired recorded event.

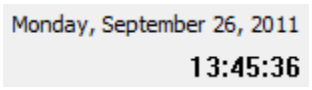
Thumbnail bar	10 images from the selected channel window are displayed.
Thumbnail image	Select a Thumbnail image to play the video of the image in the Thumbnail.
Thumbnail Center	The Thumbnail Center will display the selected thumbnail and playback the recorded video.



6.5 Explorer pane

For more information, see section 5.2 Explorer Pane.

6.6 Timeset pane



Displays the date and time of the current playback.

Forward play

Backward play

Previous frame

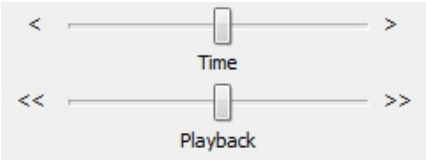
Next frame

Next block

Previous block

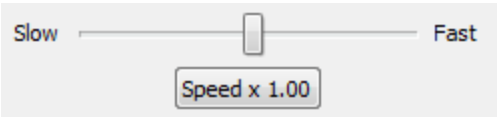
Image of start time

Image of end time



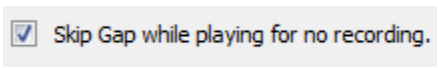
Time-based searching can be conducted by moving the bars above "Time" and "Playback." Click and drag the bar above "Time" to the right to move slowly forward; drag to the left to move slowly backward.

Click and drag the bar above "Playback" to the right to move quickly forward; drag to the left to move quickly backward.



Adjust the bar below "Playback" to control play speed. The maximum speed is 16x.

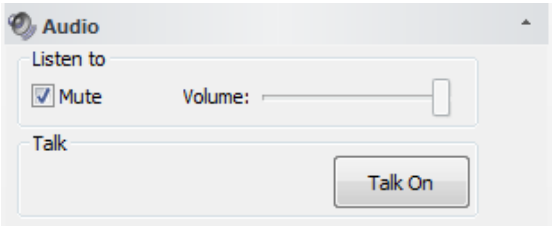
To reset the speed to 1x, click "Speed x 1.00."



When checked, if there is no recorded video in the View window tab, the system will jump to the next image.

6.7 Audio pane

6.8 Audio



Mute	Mute volume/disable audio
Volume	Volume control
Talk On	Click on button to talk through the selected camera.

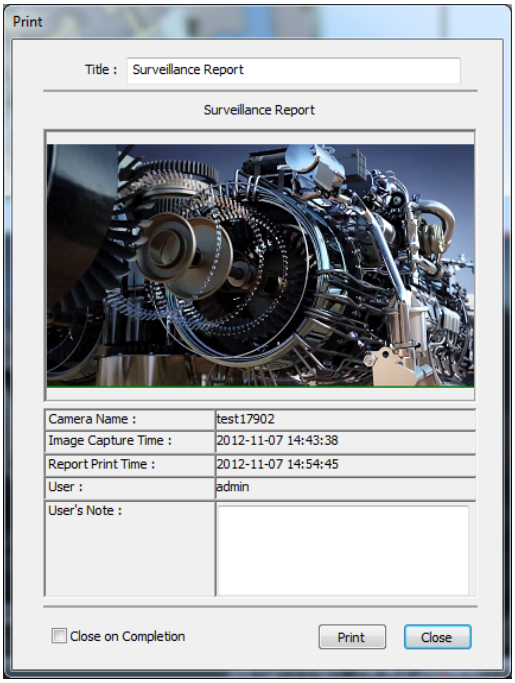
Recorded audio can be heard through the speakers when the video is played at 1x speed.

6.9 Digital Zoom pane

For more information, see section 5.5 Digital zoom.

6.10 Print pane

Print the current image in the channel window.



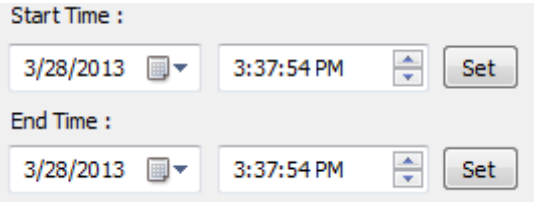
Title	Enter the title of the image to be printed.
Camera name	Displays name of camera
Image Capture Time	Displays the capture date and time of the image
Report Print Time	Displays the print date and time of the report
User	Displays the logged-in user name
User's Note	Enter user note for the image
Close on Completion	After printing, the window will close automatically
Print	Print the report
Close	Close without printing

6.11 Export pane

There are two ways to export recorded data:

AVI/JPEG	Backup the selected image or video to JPEG or AVI format
Database	The recorded video file can be exported as an NVR database file. The exported file can be played back by using the "ExportViewer."

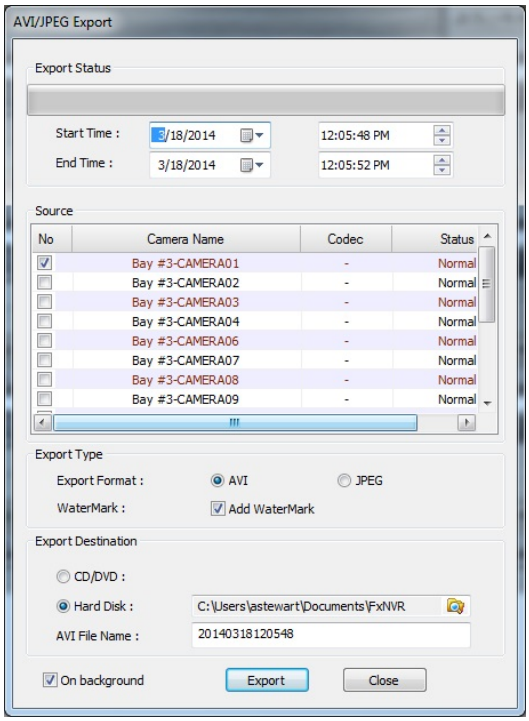
6.11.1 Export Time Selection



The Export Start and End time can be set by doing one of the following:

- Users can manually set the time and date.
- Align the Timeline bar to the desired date and time and press “Set button.”

6.11.2 AVI/JPEG Export



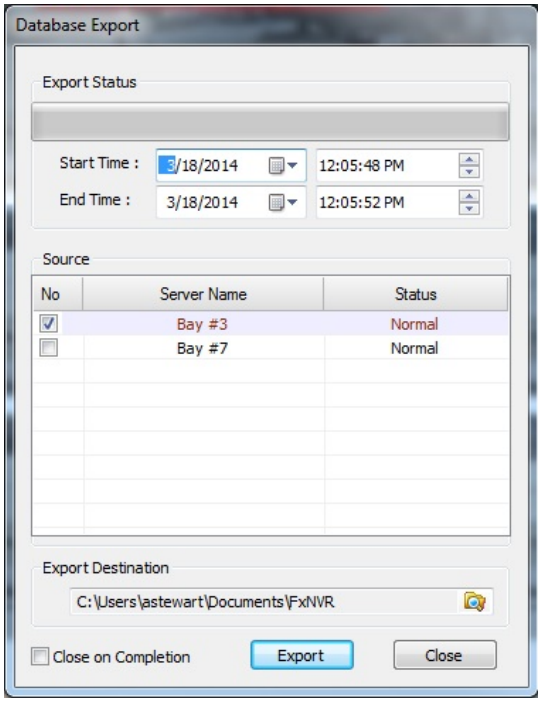
Export Status	Displays the current status of the Export
Start time	Export start date and time
End time	Export end date and time
Source	Displays the list of cameras that are currently playing on the view window User can select multiple cameras to be exported.
Export type	Select “AVI” or “JPEG” format. Select "Add Watermark" for additional security and validity of the image file. The “Verify Tool” program can be used to determine forgery or any alteration to a file. For more information, see section 8 Watermark Verify Tool in “NVR Server Manual.”
CD/DVD	Export data to CD/DVD.
Hard disk	Select a folder from a local or removable drive to export the data.
AVI Filename	Create an AVI file name for the Export data.
On background	Set the export process to run as a background task. ***NOTE***: *The background task is displayed on the Task Manager pane.*
Export	Start Export.
Close	Close the window.

6.11.3 Database Export

The Database Export copies the recorded video or audio without modification. This file can be played back using the "ExportViewer."

Database Export will copy all the stored video or audio between the selected start and end time.

NOTE: *Depending on the number of cameras, this may take several minutes.*



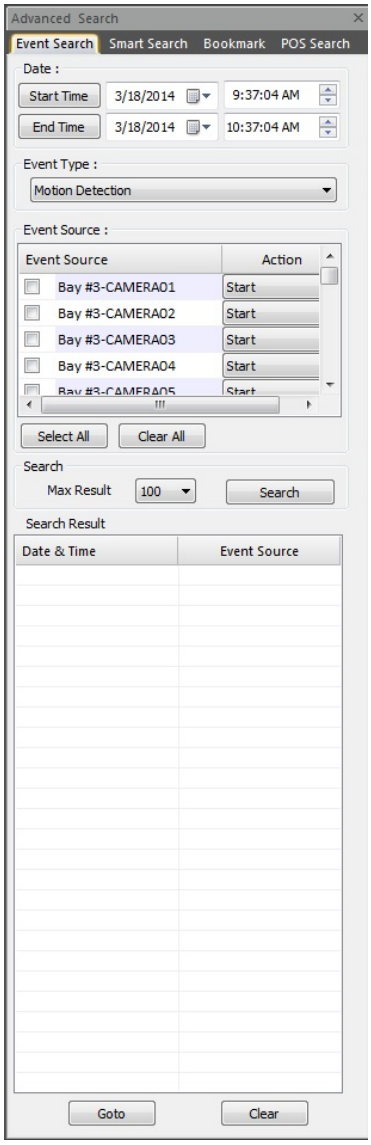
Export Status	Displays the current Export status
Start time	Export start date and time
End time	Export end date and time
Source	Displays the list of servers; select the server to copy the source
Export Destination	Select a folder from a local drive to export the data or leave the distination folder at default
Close on Completion	Automatically close when the Export is completed
Export	Start Export
Close	Close the window

NOTE: *The file will be saved in "Documents > FxNVR" by default. To access the file in "Export Viewer," navigate to "FxNVR > ExportViewer_date-of-export > Export Viewer" and double-click on ExportViewer.exe.*

6.12 Event Search

"Event Search" searches events based on motion, camera status, input device status changes, and more.

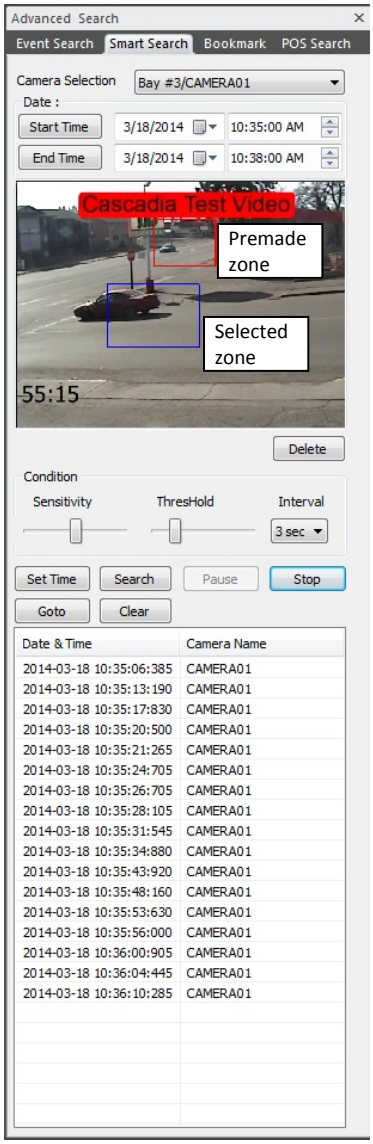
Select Advanced Search icon button in Window Tool. Select the Event Search tab.



Date	Set the start and end time to search. Click Start time button to set the start time of the current play time on the "Timeline." Click End time button to set the end time of the current play time on the "Timeline."
Event Type	The event type can be set to one of the following: • Video Loss • Motion Detection • Input port event • POS Transaction • POS Key Name • VA events
Event Source	Select a source based on the Event type.
Select All	Select all event sources.
Clear All	Clear all selected event sources.
Max Result	Set the maximum number of results to be displayed.
Search	Searches then displays the Search Result
Search Result	Search Result is displayed here.
Go to	Goes to the selected date and time of the event
Clear	Clear all results.

6.13 Smart search

Smart search is a detailed video motion detection function.



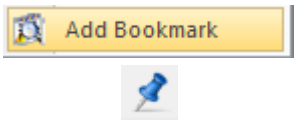
Camera Selection	Select a camera to be searched. The image of the selected camera is displayed in the video/draw area below.
Date	Select the start and end time to search. Click Start time button to set the start date and time of the current play time on the Timeline. Click End time button to set the end date and time of the current play time on the Timeline.
Video/draw area	Set the detection zone of the selected camera. Press "Delete" button to delete the detection zone. The selected zone is in blue. Previously-made zones are in red.
Condition	Sets the condition for detecting movement. Sensitivity — Motion sensitivity ThresHold — Level of intensity required to detect movement Interval — Determines interval between detections The lower the interval—the more results. The higher the interval—the less results.
Set time	Go to the start time.
Search	Start search.
Pause/Play	Pause or continue search.
Stop	Stop search.
Goto	Go to the selected time in the search results.
Clear	Delete all the found results.
Result	The search results are displayed at the bottom of the pane.

6.14 Bookmark

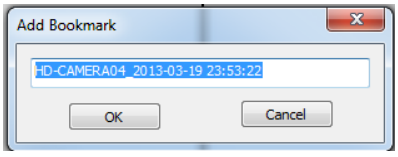
The bookmark function is used to quickly search a video at a later time.

6.14.1 Add bookmark

Users can quickly find bookmarked videos by the Bookmark Search pane.



Right-click selected camera and then select "Add Bookmark" or click bookmark icon at bottom.



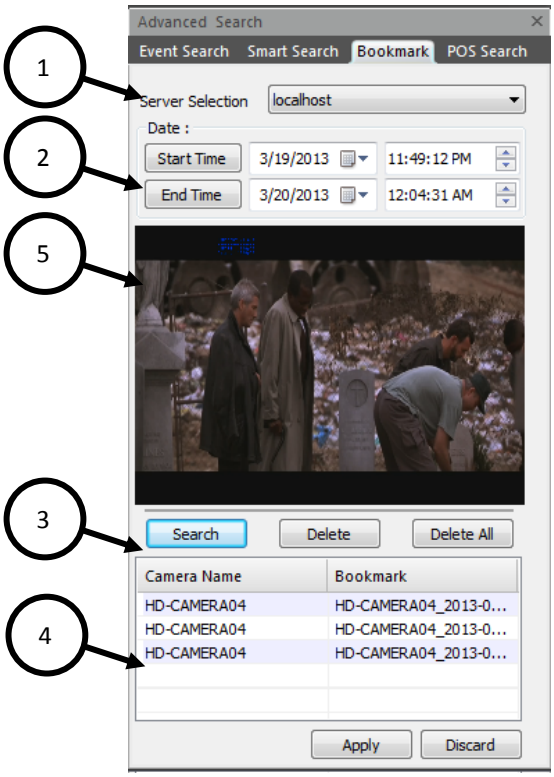
Enter a name for the bookmark and then click "OK."

When the save is complete, the bookmark icon is displayed in the Timeline.

When you double-click the bookmark icon, you can change the name.

6.14.2 Search bookmark

To search for a bookmark, select the Bookmark pane tab.



(1) Select a NVR server that will be searched from Server Selection.

(2) Set Start time and End time.

Click Search button (3) to search for bookmarks. The results will be listed in the window below (4).

When clicking on a camera name in the results (4), a video will be displayed on the video screen (5).

When double-clicking the camera name (4), the play time will be moved to bookmark's time in the current view window.

NOTE: *Double-clicking the camera name won't do anything if the channel related to the bookmark is no longer in the view window.*

Single-click the bookmark name to change its name.

6.14.3 Delete Bookmark

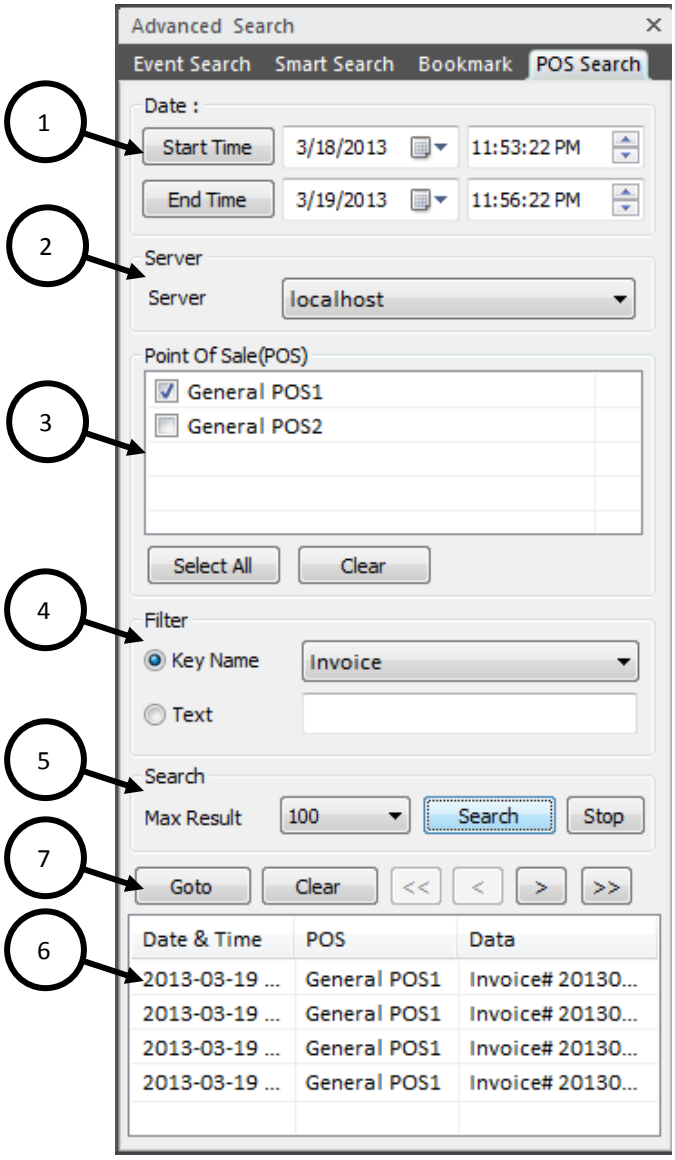
Select a bookmark on the result window, click the Delete button to delete and remove the bookmark from the result window. When clicking the Apply button, it will be removed from the database.

When clicking the Discard button, the deleted item will be re-added to the result window.

NOTE: *If the Apply button has been used previously, the Discard button may have no effect.*

6.15 POS transaction data search

Point of Sale (POS) transactions can be stored as data and searched accordingly. Select POS Search tab in the Advanced Search pane.



(1) Set Start time and End time to look up.

(2) Select a NVR server to be searched.

The name of the device(s) will be listed in the POS device window (3). Select one or more POS devices.

Select a Filter type, either Key Name or Text (4).

Key Name: These can be added in POS Setup.

Text: Specify a word to look up.

Click Search button (5) to search for transaction data. The results will be listed in the result window (6).

Select a result (6) and click Goto button (7); the play time will be moved to the result's respective time in the current view window.

To clear results, click Clear button.

Click ">" button for more results beyond the max result count. Click ">>" button to scroll the result list down to the last result.

For more information, see section 7.16 POS Setting in "NVR Server Manual."

7 Setup

Setup configures the CMS environment. Each tree will have a separate setup item.

There are some buttons with universal functions for every menu:

New	Create a new environment.
Save	Set the environment for temporary storage. It will not be applied to the NVR.
Apply	Current settings will be modified and applied to the NVR.
Remove	The selected environment will be deleted temporary. It will not be applied to the NVR.
Discard	Discard the current setting and revert back to the previous applied setting.

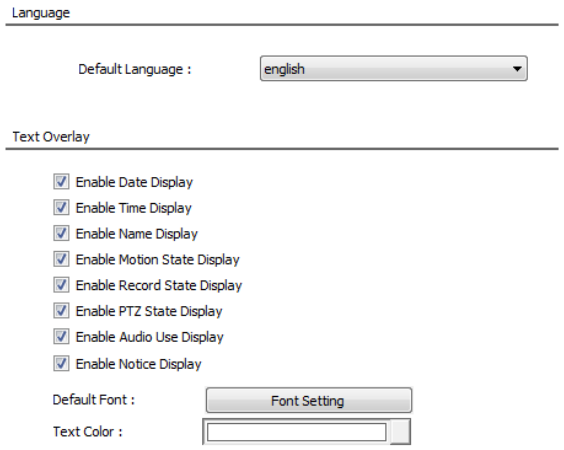
NOTE: If you do not press "Apply" after changing the settings, the system will revert back to the previous setting automatically.

7.1 Surveillance CMS

7.1.1 Display

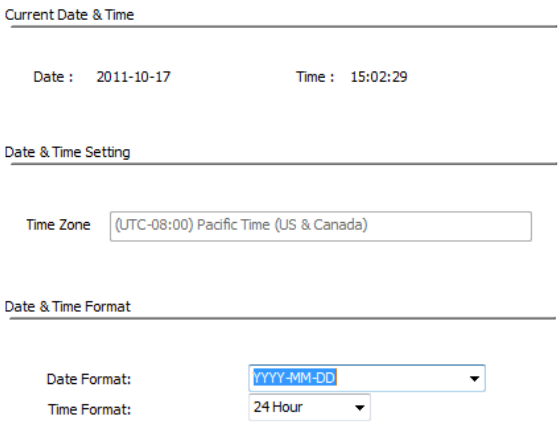
Language: Select the language to be used in the program.

Text Overlay dictates the message settings to be displayed in the channel window.



Default Language	Select the language to be used in the program.
Enable Date Display	Displays the date
Enable Time Display	Displays the time
Enable Name Display	Displays the camera name
Enable Motion State Display	Displays the motion status
Enable Record State Display	Displays the recording status
Enable PTZ State Display	Displays PTZ status
Enable Audio Use Display	Displays audio use
Enable Notice Display	Displays notices in Search Mode (e.g. "No Recording")
Default Font/Font Setting	Set the font
Text Color	Set the color of the text

7.1.2 Date & Time



Current Date & Time	Displays the current date and time
Date Format	Select the display format of the date: YYYY-MM-DD, MM/DD/YYYY, www mmm dd YYYY (For example YYYY-MM-DD: 2011-8-12 MM/DD/YYYY: 8/21/2011 www mmm dd YYYY: Fri Sep. 1 2011)
Time Format	Select the display format of the time: 12Hour, 24Hour (For example 12 Hour: 1:12:33 PM 24 Hour: 13:2:33)

7.2 Surveillance Server

For more information, refer to “NVR Server Manual.”